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SOURCE Leningradskaya Pravda.

SOVIET RESEARCH INSTITUTE
DEVELOPS NEW ALLOYS

The laboratory of magnesium alloys of the All-Union Aluminum and Magnesium Institute has been working on the problem of reducing the weight of machines and tools without weakening the strength of all their parts. This type of research, which is vitally important for the further improvement of products in many branches of Soviet industry, has been carried on for a number of years. All-metal railroad cars made by the Plant imeni Yegorov and pneumatic drills manufactured by the "Pnevmatika" Plant have many parts made of aluminum alloys.

Scientific workers are trying to develop new and even lighter alloys, for example, magnesium alloys. Builders of the Leningrad subway recently received a model of a bolting device made of magnesium alloy, remarkable for its lightness. Pneumatic drills with heads made of a light magnesium alloy are being used in the tunnels of the Leningrad subway and in the Donbass mines. Miners are extremely satisfied with these tools, which greatly facilitate their work. These are only a few examples for the use of light alloys which are rapidly gaining recognition in various fields. The Ministry of Coal Industry is now organizing production of light-weight mining equipment in one of its plants.

However, the general use of light alloys will not be profitable without the successful application of electric welding. It is interesting to note that foreign literature does not contain any information on this point. Soviet scientists have used the method discovered by N. G. Slavyanov for metal arc welding. Industrial enterprises frequently send their best welders to the institute, where they are trained in the new technique of arc welding of light alloys.

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